

Amendments to the Specification:

Pursuant to 37 C.F.R. § 1.121(b) kindly amend the specification as follows. Amendments to the specification are made by presenting replacement paragraphs or sections marked up to show changes made relative to the immediate prior version. The changes in any amended paragraph or section are being shown by strikethrough (for deleted matter) or underlined (for added matter).

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Referring to Fig. 1, a Cam Torque Actuated (CTA) VCT system is shown. The CTA system uses torque reversals in camshaft caused by the forces of opening and closing engine valves to move vane 1. The control valve in a CTA system allows fluid flow from advance chamber 2 to retard chamber 3 or vice versa, allowing vane 1 to move, or stops flow, locking vane 1 in position. CTA phaser may also have oil input 13 to make up for losses due to leakage, but does not use engine oil pressure to move phaser. The phaser is typically made up of rotor 31, housing 32, spool valve 19, and check valves 6, 7. The housing 32 is defined as the outer part of phaser with chambers 2, 3. The rotor 31 is the inner part of the phaser, which is attached to a cam shaft 44.

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Chamber is defined as a space within which vane rotates. ~~Camber~~ Chamber may be divided into advance chamber (makes valves open sooner relative to crankshaft) and retard chamber (makes valves open later relative to crankshaft). Check valve is defined as a valve which permits fluid flow in only one direction. A closed loop is defined as a control system which changes one characteristic in response to another, then checks to see if the change was made correctly and adjusts the action to achieve the desired result (e.g. moves a valve to change phaser position in response to a command from the ECU, then checks the actual phaser position and moves valve again to correct position). Control valve is a valve which controls flow of fluid to phaser. The control valve may exist within the phaser in CTA system. Control valve may be actuated by oil pressure or solenoid. Crankshaft takes power from pistons and drives transmission and camshaft. Spool valve is defined as the control valve of spool type. Typically

the spool rides in bore, connects one passage to another. Most often the spool is most often located on center axis of rotor of a phaser.